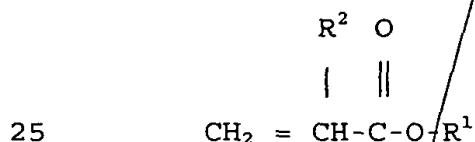


CLAIMS

75  
S. A. 2  
1. Halogen-free, flame-retardant composition  
that comprises at least either  
an organic phosphorus compound (A),  
melamine or a compound derived from melamine  
(B),  
or a melamine-phosphorus compound (AB),  
characterised in that the composition also  
10 contains  
a polymer compound (C) comprising at least  
one type of olefine having 2-12 carbon atoms  
and 0.1-30 weight % (relative to the weight  
of the polymer compound) of at least one  
15 compound containing acid, acid anhydride or  
epoxy groups.

2. Composition according to Claim 1,  
characterised in that component (C) is a  
polymer having a chemical composition based  
20 on E, X and Y, E being an ethylene radical, X  
a radical formed from the compound



where

$\text{R}^1$  = alkyl radical having 1-8 carbon atoms

$\text{R}^2$  = H,  $\text{CH}_3$  or  $\text{C}_2\text{H}_5$

30 and Y is a radical formed from glycidyl  
(alkyl)acrylate.

3. Composition according to Claim 1,  
characterised in that component (C) is an  
ethylene/acrylic ester/glycidyl methacrylate,  
35 ethylene/acrylic ester/maleic anhydride,

*1b  
a2  
cont.*

ethylene/glycidyl methacrylate, ethylene/methacrylic acid, propylene/maleic anhydride and propylene/acrylic acid polymer.

4. Composition according to Claim 3, characterised in that component (C) is an ethylene/acrylic ester/glycidyl methacrylate terpolymer.

5. Composition according to Claim 4, characterised in that component (C) is an 10 ethylene/methylmethacrylic ester/glycidyl methacrylate terpolymer.

15 6. Composition according to Claim 1, characterised in that component (C) is an ethylene/alpha-olefine copolymer modified with maleic anhydride.

20 7. Composition according to any one of Claims 1-6, characterised in that the organic phosphorus component (A) or the melamine-phosphorus compound (AB) is a phosphate, phosphinate or phosphonate.

25 8. Composition according to any one of Claims 1-7, characterised in that melamine, melamine cyanurate, melamine phosphate, melam, melem or a mixture thereof is chosen as component (B) of (AB).

30 9. Polycondensate composition that comprises the 10. flame-retardant composition according to any one of Claims 1-8, characterised in that the polycondensate is a polyester or a polyamide.

35 30 10. Polycondensate composition according to Claim 9, characterised in that the polyester is chosen from the group comprising PET (polyethylene terephthalate), PBT (polybutylene terephthalate), PEN (polyethylene naphthalate), PPT

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(polyphenylene terephthalate) or PBN  
(polybutylene naphthalate).

11. Polycondensate composition according to Claim 9, characterised in that the polyamide is chosen from the group comprising polyamide-6, polyamide-6,6 and polyamide-4,6.

12. Polycondensate composition according to any one of Claims 9-11, characterised in that an inorganic filler is also present.

10 13. Polycondensate composition according to Claim 12, characterised in that the inorganic filler is glass fibre.

14. Polyester composition that comprises at least:

15 - an organic phosphate or phosphonate;  
- melamine cyanurate, melamine phosphate, melam, melem or mixtures thereof;  
- an ethylene/acrylic ester/glycidyl methacrylate polymer;  
20 - glass fibres  
- a polyester chosen from the group comprising PET (polyethylene terephthalate), PBT (polybutylene terephthalate), PEN (polyethylene naphthalate) or PBN (polybutylene naphthalate).

25 15. Polyamide composition that comprises at least:

30 - an organic phosphate or phosphonate;  
- melamine cyanurate, melamine phosphate, melam, melem or mixtures thereof;  
- an ethylene/alpha-olefine copolymer modified with maleic anhydride;  
- glass fibres  
35 - a polyamide chosen from the group

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comprising polyamide-6, polyamide-6,6 and polyamide-4,6.

16. Halogen-free flame-retardant composition and polycondensate composition as described and 5 elucidated with reference to the examples.

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